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[Document Name]Description

[Title of the Invention]A riding basket of an elevator

[Claim(s)]

[Claim 1]A basket room where a door for getting on and off was provided in the whole surface with an enclosed type, and other fields were surrounded by a side board reinforced by a honeycomb material. A ventilation fan for taking in air for ventilation from the exterior to this basket interior of a room. Are a riding basket of an elevator provided with the above, and at least among said side boards, [a sheet of side board] While considering it as structure which pinches said honeycomb material by face sheet and a backlining, said honeycomb material is characterized by a thing of said face sheet and said backlining for which only a prescribed dimension has been arranged inside from both the right and left ends at least, respectively, and a distribution channel of air for ventilation was formed in both sides of said honeycomb material.

[Claim 2]A riding basket of the elevator according to claim 1 having provided a member made from the sheet steel of L type or U type in a both-the-right-and-left-ends part of a honeycomb material currently pinched by said face sheet and backlining, and constituting said side board.

[Claim 3]A riding basket of the elevator according to claim 1 constituting said side board so that it may have the opening which formed said backlining in a cross-section convex shape so that a part and a tooth back of a both-the-right-and-left-ends part of said honeycomb material might be touched, and was surrounded in a both-the-right-and-left-ends part of this backlining, said face sheet, and said honeycomb material.

[Claim 4]A riding basket of the elevator according to any one of claims 1 to 3 providing an exhaust port of air for ventilation in the upper part of said backlining which is not in contact with said honeycomb material of said side board.

[Claim 5]A riding basket of the elevator according to any one of claims 1 to 3 providing an exhaust port of air for ventilation in a longitudinal direction intermediate part of said backlining which is not in contact with said honeycomb material of said side board.

[Claim 6]Claim 1 thru/or Claim 3 characterized by comprising the following, or a riding basket of an elevator given in any 1 paragraph of Claim 5.
It turns outside on the back side of an intermediate part of said face sheet, and said side board is an opening.
And a beam which has an air hole which stands in a row in said distribution channel of this opening and air for ventilation.

[Claim 7]Claim 1, wherein said side board provides a beam which has an air hole which a cross section makes a hollow shape and stands in a row in said distribution channel of the upper and lower sides of air for ventilation in the back side of an intermediate part of said face sheet thru/or a riding basket of an elevator given in any 1 paragraph of Claim 4.

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the riding basket of the elevator starts the riding basket of an elevator, especially the amenity of the basket indoor part was made to improve.

[0002]

[Description of the Prior Art]First, the structure of the riding basket of a general elevator is explained with reference to drawing 7 and drawing 8. Drawing 7 is drawing of longitudinal section showing the structure of the riding basket of a rope type elevator.
In this figure, the riding basket 1 of the elevator comprises the basket room 3 carried in the car frame 2 hung by the main rope which hung from the loop wheel machine of the machine house which is not illustrated, and this car frame 2.

[0003]Outline composition of the car frame 2 is carried out from the upper beam 21 currently installed horizontally in the upper bed, the jambs 22 and 23 perpendicularly fixed to the both ends of this upper beam 21, and the sill 24 by which both ends were fixed to the lower end of these jambs 22 and 23. And the main rope fixing rod 11 combined with the lower end part of the main rope which is not illustrated penetrates in the center section of the upper beam 21, and the upper beam 21 and the main rope which is not illustrated are being fixed to it by carrying out engaging of clutch of the helical compression spring 12 to the lower part of this main rope fixing rod 11, and attaching firmly by the fixture 13.

[0004]On the other hand, the basket room 3 is what is laid in the sill 24 via the rubber cushion 14, The basket floor 31 is laid on the rubber cushion 14, the width (width) tree member 32 is laid in the top-face perimeter of this basket floor 31, two or more side boards 33 are further set up by the top face of this base board member 32, the head lining 34 is fixed to the upper bed of the side board 33, and the box of the basket room 3 is constituted. The side board 33 has the vertical reinforcing members 33c and 33d set up so that the upper reinforcing member 33a might be installed horizontally in an upper bed part, and the lower reinforcing member 33b might be installed horizontally in a lower end part and also the lower reinforcing member 33b might be reached from the upper reinforcing member 33a, as shown in drawing 8 (a) and drawing 8 (b). Drawing 8 (a) is a back elevation of the side board 33 here, and drawing 8 (b) is a sectional view which meets the X-X line of drawing 8 (a).

[0005]And as shown in drawing 7, the ventilation fan 35 is laid in the upper part of the head lining 34, and it is being fixed to it, and the air inlet door 36 is formed in the right and left of the head lining 34 so that the open air inhaled with this ventilation fan 35 may blow off in the basket room 3. The slit 37 is formed near the position which touches the base board member 32 of the lower reinforcing member 33b provided in the lower end part of the side board 33.

[0006]Therefore, the open air inhaled with the ventilation fan 35 is supplied in the basket room 3 from the air inlet door 36 of the basket room 3 upper parts, as the arrow head B1 shows, it flows down, and it is discharged to an external hoistway from the slit 37 formed in the lower reinforcing member 33b of the basket room 3 lower parts.

[0007]In order to acquire a soundproof effect, as it is shown in drawing 9, the side board 33 is made into the dual structure of the face sheet 33e and 33 f of backlinings, On both sides of each reinforcing members 33a-33d, the side board 33 is constituted between the face sheet 33e and 33 f of backlinings, and the slit 37 is formed in the lower reinforcing member 33b (of course). [this slit 37] it forms so that it may stand in a row also into the corresponding portion of 33 f of backlinings -- having -- there was also a thing in which the exhaust port 38 which stands in a row in 33 f of backlinings was formed also in the upper reinforcing member 33a. Here, although what showed drawing 8 the vertical reinforcing members 33c and 33d shown in drawing 9 differs from shape, the function is the same, is surrounded by the vertical reinforcing members 33c and 33d, the face sheet 33e, and 33 f of backlinings, and 33 g of

space is formed.

[0008]In this case, the open air supplied to the basket room 3 will be discharged to an external hoistway via 33 g of space inside the slit 37 formed in the lower reinforcing member 33b of the side board 33 to the side board 33 from the exhaust port 38 of the back side upper part of the side board 33. Drawing 9 (a) is a back elevation of a side board, and drawing 9 (b) is a sectional view which meets the X-X line of drawing 9 (a).

[0009][for Hitoshi Kougami of reduction of the power consumption of the loop wheel machine of an elevator, and the riding comfortability engine performance of the riding basket 1] The weight saving of the riding basket 1 and high rigidity-ization were desired, and in order to plan the weight saving and high rigidity of the riding basket 1 there, as shown in drawing 10, there were some which used the honeycomb material 33h for the reinforcing member of the side board 33 (JP,2-11948,U, JP,H8-259147, A). In using the honeycomb material 33h for the reinforcing member of this side board 33, in order to obtain the character top rigidity of the honeycomb material 33h, the side board 33 was constituted so that it might become sandwiches shape on both sides of the honeycomb material 33h by the face sheet 33e and 33 f of backlinings. Drawing 10 (a) is a back elevation of a side board, and drawing 10 (b) is a sectional view which meets the X-X line of drawing 10 (a).

[0010]

[Problem to be solved by the invention]However, when the honeycomb material 33h is used for the reinforcing member of the side board 33, can acquire the effect of intercepting noise by 33 f of backlinings like the structure of the side board 33 shown in drawing 9, but. Since the inside of the side board 33 was buried with the honeycomb material 33h, like the side board 33 shown in drawing 9, 33 g of space could not be formed in the center section of the side board 33, but there was a problem that the exhaust passage of the open air for ventilation was not securable.

[0011]Then, while this invention uses a honeycomb material for the reinforcing member of a side board, rides and attains the weight saving of a basket, and high rigidity-ization, [this invention] Noise, such as a whizzing sound in a hoistway, is made for the purpose of providing the riding basket of the elevator which can make it hard to go into a basket indoor part, and can perform ventilation of the basket interior of a room comfortably.

[0012]

[Means for solving problem]The basket room surrounded by the side board with which the door for getting on and off was provided in the whole surface in which the invention according to claim 1 has an

enclosed type, and other fields were reinforced by the honeycomb material among this inventions, In the riding basket of the elevator which has a ventilation fan for taking in air for ventilation, to this basket interior of a room, at least among said side boards from the exterior, [a sheet of side board] While considering it as the structure which pinches said honeycomb material by the face sheet and a backlining, said honeycomb material is characterized by the thing of said face sheet and said backlining for which only the prescribed dimension has been arranged inside from both the right and left ends at least, respectively, and the distribution channel of air for ventilation was formed in the both sides of said honeycomb material.

[0013]By this, the weight saving of a basket room and high rigidity-ization are attained, an effect of intercepting noise also goes up, and the amenity of a basket room improves.

[0014]In the riding basket of the elevator according to claim 1, the invention according to claim 2 provided the member made from the sheet steel of L type or U type in the both-the-right-and-left-ends part of the honeycomb material currently pinched by said face sheet and the backlining, and constituted said side board.

[0015]While the exhaust passage of the air for ventilation taken in from the outside to the basket interior of a room is secured by this, strengthening of a basket room and high rigidity-ization are attained, an effect of intercepting noise also goes up, and the amenity of a basket room improves.

[0016]In the riding basket of the elevator according to claim 1, [the invention according to claim 3] Said backlining was formed in the cross-section convex shape so that the part and tooth back of a both-the-right-and-left-ends part of said honeycomb material might be touched, and said side board was constituted so that it might have the opening surrounded in the both-the-right-and-left-ends part of this backlining, said face sheet, and said honeycomb material.

[0017]Thereby, since a vertical reinforcing member is omissible in addition to improvement in the weight saving of a basket room, and the amenity of a basket room, part mark are reduced, it assembles and a man day is also reduced.

[0018]The invention according to claim 4 provided the exhaust port of air for ventilation in the upper part of said backlining which is not in contact with said honeycomb material of said side board in the riding basket of the elevator according to any one of claims 1 to 3.

[0019]Thereby, according to the effect of intercepting noise by the backlining of a side board, noise, such as a whizzing sound in a hoistway, makes it hard to go into a basket indoor part, and since an exhaust passage is established in the inside of a side board, ventilation in a riding basket can be

performed comfortably.

[0020]The invention according to claim 5 provided the exhaust port of air for ventilation in the longitudinal direction intermediate part of said backlining which is not in contact with said honeycomb material of said side board in the riding basket of the elevator according to any one of claims 1 to 3.

[0021]Thereby, since the exhaust passage inside a side board becomes short, the pressure loss from a side-board lower end to an exhaust port decreases, and ventilation of the basket interior of a room can be performed efficiently.

[0022]In the riding basket of the elevator of a description, again the invention according to claim 6 in any 1 paragraph of Claim 1 thru/or Claim 3, or Claim 5, [said side board] The beam which has an air hole which has an opening towards the outside and stands in a row in said distribution channel of this opening and air for ventilation was provided in the back side of the intermediate part of said face sheet.

[0023]In the riding basket of the elevator of a description, the invention of Claim 7 in any 1 paragraph of Claim 1 thru/or Claim 4, [said side board] The beam which has an air hole which a cross section makes a hollow shape and stands in a row in said distribution channel of the upper and lower sides of air for ventilation was provided in the back side of the intermediate part of said face sheet.

[0024]Thus, since the beam was provided in the back side of the face sheet according to the invention given in Claims 6 and 7, While the rigidity of a side board is strengthened, when attaching apparatus, such as a basket console panel only for a wheelchair, to the side-board side by the side of the basket interior of a room, for example, it can be considered as a firm and positive thing by using said beam.

[0025]

[Mode for carrying out the invention]Hereafter, the embodiment of the riding basket of the elevator concerning this invention is described in detail with reference to drawing 1 thru/or drawing 6. Since this invention has the feature in the structure of the side board of the basket room which forms the riding basket of an elevator, only the embodiment of a side board is shown in these figures, and since the riding basket of an elevator is the same as that of what was shown in drawing 7, the explanation is omitted. In drawing 1 thru/or drawing 6, the same numerals are given to the same portion as drawing 7 thru/or drawing 9.

[0026]Now, drawing 1 is what showed a 1st embodiment of this invention, drawing 1 (a) is a back elevation of a side board, and drawing 1 (b) is a sectional view which meets the X-X line of drawing 1 (a). In this drawing 1, the side board 33 has dual structure which pinches the honeycomb material 33h by

the face sheet 33e of a cross-section U shape, and 33 f of plate-like backlinings, and the honeycomb material 33h is arranged inside only the prescribed dimension, respectively from the both the right and left ends of the face sheet 33e and 33 f of backlinings, and up-and-down both ends. And the upper reinforcing member 33a is installed horizontally in the upper bed part of the honeycomb material 33h so that the above-mentioned prescribed dimension may be buried, The vertical reinforcing members 33c and 33d are set up so that the lower reinforcing member 33b may be installed horizontally so that the above-mentioned prescribed dimension may be buried also like a lower end part, and also the lower reinforcing member 33b may be reached from the upper reinforcing member 33a, and the above-mentioned prescribed dimension same also with the both the right and left ends of the honeycomb material 33h may be buried.

[0027]The upper reinforcing member 33a, the lower reinforcing member 33b, and the vertical reinforcing members 33c and 33d of these comprise the member made from the sheet steel which the cross section made U type or L type, and these are pasted up and attached to the face sheet 33e and 33 f of backlinings including the honeycomb material 33h. While the slit 37 is formed in the lower reinforcing member 33b, the exhaust port 38 is formed in the upper reinforcing member 33a. Of course, this slit 37 and exhaust port 38 are stood in a row and formed in 33 f of backlinings. The slit 39 etc. are formed in the touching portion with the vertical reinforcing members 33c and 33d, the upper reinforcing member 33a, and the lower reinforcing member 33b so that circulation of air may not be barred.

[0028]In this embodiment, the side board 33 is made into the dual structure which pinched the honeycomb material 33h between the face sheet 33e and 33 f of backlinings as mentioned above, Since the vertical reinforcing members 33c and 33d, the upper reinforcing member 33a, and the lower reinforcing member 33b are formed in the surroundings of the honeycomb material 33h and these were used as an exhaust passage, The air for ventilation introduced in the basket room 3 lets the slit 39 pass from the slit 37, flows through the inside of the vertical reinforcing member 33c of the side board 33, and 33d like the arrow head A1, and is discharged from the exhaust port 38 to an external hoistway.

[0029]Therefore, while being able to attain the weight saving of the basket room 3, and high rigidity-ization compared with the former by using the honeycomb material 33h as a reinforcing member of the side board 33, Since the side board 33 has dual structure, an effect of intercepting noise increases, and noise, such as a whizzing sound in the hoistway of an elevator, becomes difficult to go into basket room 3 insides, and can raise the amenity in the basket room 3 extremely.

[0030]Drawing 2 shows a 2nd embodiment that changed a little a 1st embodiment of this invention shown in drawing 1, and it is a sectional view where drawing 2 (a) meets the back elevation of a side board, and drawing 2 (b) meets the X-X line of drawing 2 (a).

[0031]According to this embodiment, a 1st embodiment is differed from in that the exhaust port 38 was formed in the vertical reinforcing members [of the side board 33 / 33c and 33d] mid-position. Of

course, this exhaust port 38 is stood in a row and formed in 33 f of backlinings. Since other composition is the same as that of drawing 1, in drawing 2, the same numerals are given to the same portion as drawing 1, and explanation of the portion is omitted.

[0032]In the riding basket of the elevator of this 2nd embodiment, The air for ventilation introduced in the basket room 3 will let the slit 39 pass from the slit 37, will flow through the inside of the vertical reinforcing member 33c of the side board 33, and 33d like the arrow head A2, and it will be discharged to an external hoistway from the exhaust port 38 provided in the vertical reinforcing members [33c and 33d] intermediate part.

[0033]Therefore, since the exhaust passage of side-board 33 inside, i.e., the course from a vertical reinforcing members [33c and 33d] lower end to the exhaust port 38, becomes short if it is in this 2nd embodiment, the pressure loss from the lower end of the side board 33 to the exhaust port 38 decreases, and ventilation in the basket room 3 can be performed efficiently. In addition, the same effect as the thing of a 1st embodiment is acquired.

[0034]Drawing 3 is what showed a 3rd embodiment of this invention, drawing 3 (a) is a back elevation of a side board, and drawing 3 (b) is a sectional view which meets the X-X line of drawing 3 (a). Although the side board 33 has dual structure which pinches the honeycomb material 33h by the face sheet 33e and 33 f of backlinings, [this embodiment] [the side board] The honeycomb material 33h is arranged inside only a prescribed dimension, respectively from the both the right and left ends of the face sheet 33e and 33 f of backlinings, and up-and-down both ends, The upper reinforcing member 33a is installed horizontally in the upper bed part of the honeycomb material 33h so that the above-mentioned prescribed dimension may be buried, and the lower reinforcing member 33b is installed horizontally so that the above-mentioned prescribed dimension may be buried also like a lower end part.

[0035]However, in a 1st and 2nd embodiment, the provided vertical reinforcing members 33c and 33d are omitted, 33 f of backlinings are not monotonous and the cross section is formed in the convex form. Therefore, the opening 33i which touched the part and tooth back of the both-the-right-and-left-ends part of the honeycomb material 33h by the upper portion of the convex form of 33 f of backlinings, pinched this honeycomb material 33h with the face sheet 33e, and was surrounded with the lower part of a convex form of 33 f of backlinings, the both-the-right-and-left-ends part of the honeycomb material 33h, and the face sheet 33e is formed. This opening 33i serves as an exhaust passage, and has formed the slit 40 in the position corresponding to this opening 33i of the upper reinforcing member 33a and the lower reinforcing member 33b therefore. Other composition is the same as that of a 1st and 2nd embodiment, the same numerals are given to the same portion as drawing 1 and drawing 2, and explanation of the portion is omitted.

[0036]Since the opening 33i formed in the inside of the side board 33 was used as an exhaust passage in this embodiment, [the air for ventilation introduced in the basket room 3] It can let the slit 40 pass from

the slit 37, can flow through the inside of the opening 33i of the side board 33 like the arrow head A3, and can discharge from the exhaust port 38 to an external hoistway. While being able to attain the weight saving of the basket room 3, and high rigidity-ization compared with the former by using the honeycomb material 33h as a reinforcing member of the side board 33, Since the side board 33 has dual structure, an effect of intercepting noise increases, and noise, such as a whizzing sound in the hoistway of an elevator, becomes difficult to go into basket room 3 insides, and can raise the amenity in the basket room 3 extremely. The vertical reinforcing member 33c and the cost cut by reduction of part mark and reduction of the number of assemblers since 33 d becomes unnecessary can also be aimed at.

[0037]Drawing 4 shows a 4th embodiment that changed a little a 3rd embodiment of this invention shown in drawing 3, and it is a sectional view where drawing 4 (a) meets the back elevation of a side board, and drawing 4 (b) meets the X-X line of drawing 4 (a). According to this embodiment, the point provided in the mid-position of the longitudinal direction of the opening 33i currently formed of 33 f of backlinings of the side board 33 in the exhaust port 38 so that 33 f of backlinings might be penetrated differs from a 3rd embodiment. Since other composition is the same as that of drawing 3, in drawing 4, the same numerals are given to the same portion as drawing 3, and explanation of the portion is omitted.

[0038]In the riding basket of the elevator of this 4th embodiment, The air for ventilation introduced in the basket room 3 will let the slit 40 pass from the slit 37, will flow through the inside of the opening 33i of the side board 33 like the arrow head A4, and it will be discharged to an external hoistway from the exhaust port 38 provided in the intermediate part of the opening 33i.

[0039]Therefore, since the exhaust passage of side-board 33 inside, i.e., the course of the opening 33i from the lower end of the side board 33 to the exhaust port 38, becomes short if it is in this 4th embodiment, the pressure loss from the lower end of the side board 33 to the exhaust port 38 decreases, and ventilation in the basket room 3 can be performed efficiently. In addition, the same effect as the thing of a 3rd embodiment is acquired.

[0040]Drawing 5 changes a little a 4th embodiment of this invention shown in drawing 4, a 5th embodiment that reinforced the rigidity on the structure of the side board 33 is shown, and it is a sectional view where drawing 5 (a) meets the back elevation of a side board, and drawing 5 (b) meets the X-X line of drawing 5 (a).

[0041]In the riding basket of the elevator of this 5th embodiment, The honeycomb material 33h and 33 f of backlinings near a position which formed the exhaust port 38 exactly in the back side intermediate part of the face sheet 33e of the side board 33, i.e., drawing 4, like a graphic display were divided up and down, and it constituted so that a cross section might stick the U-shaped beam 41 oblong by welding or adhesion and might be fixed between them.

[0042]And in the lower part edge 41a of the beam 41 of a U shape [cross section], the air hole 42 which stands in a row in the opening 33i was formed, and as shown in drawing 5 (b), at it, it constituted so that the air for ventilation which flows like the arrow head A4 might be discharged via this air hole 42 to an external hoistway.

[0043]As shown in drawing 5 (a), in the bottom 41b of the beam 41, two or more penetration holes 43 which also penetrated the face sheet 33e and formed the female screw inside were formed, and the apparatus 44, such as a basket console panel only for a wheelchair, was constituted in the basket interior of a room at it using this penetration hole 43 so that attachment was possible.

[0044]Thus, since the beam 41 was fixed to side-board 33 rear face according to a 5th embodiment, while the rigidity of side-board 33 broad and longwise the very thing is strengthened further in addition to a comfortable ventilation operation of the basket interior of a room, attachment of the apparatus 44 using the beam 41 can be made certain and firm.

[0045]Since the penetration hole 43 of the beam 41 is an object for the apparatus 44 attachment to the basket interior of a room, it can make attachment of the apparatus 44 a easier and positive thing by welding the nut corresponding to the penetration hole 43 to the bottom 41b of the beam 41 (weld).

[0046]By the above-mentioned explanation, even if it constitutes the beam 41 in the shape of [in_which the cross-section U shape was formed / of the form which does not have an upper part edge although purport explanation was given] a cross-section L character, the same effect is acquired.

[0047]Although the beam 41 was explained in this embodiment again as what was adopted as the side board 33 in a 4th embodiment, Since the beam 41 makes the composition provided in the intermediate part of the sliding direction in side-board 33 rear face, it cannot be overemphasized that it can be adapted also like the side board 33 of a 2nd embodiment shown in drawing 2.

[0048]Formed the beam 41 in the intermediate part of the sliding direction of side-board 33 rear face, constituted from a 5th embodiment of the above so that air for the ventilation from the air hole 42 might be breathed out to a hoistway, but. By having composition closed to the hoistway side and forming the air hole 42 which stands in a row inside in a sliding direction, the beam 41 can also be constituted so that it can apply to a 3rd embodiment shown in drawing 3.

[0049]That is, drawing 6 changes a little a 3rd embodiment of this invention shown in drawing 3, a 6th embodiment that reinforced the rigidity on the structure of the side board 33 is shown, and it is a sectional view where drawing 6 (a) meets the back elevation of a side board, and drawing 6 (b) meets the X-X line of drawing 6 (a).

[0050]In the riding basket of the elevator of this 6th embodiment, Like a 5th embodiment, near the position of the back side intermediate part of the face sheet 33e of the side board 33, the honeycomb material 33h and 33 f of backlinings were divided up and down, and between them, the cross section stuck the hollow-shaped beam 45 oblong by welding or adhesion, and was fixed.

[0051]And. [a cross section] [the hollow-shaped lower part edge 45a and the upper part edge 45b of the beam 45] As shown in drawing 6 (a) and drawing 6 (b), the air holes 42 and 42 which stand in a row in the up-and-down opening 33i were formed, respectively, and it constituted via these air holes 42 and 42 so that the air for ventilation which flows like the arrow head A3 might be discharged by the external hoistway via the slit 40 and the exhaust port 38.

[0052]Two or more penetration holes 43 which also penetrated the face sheet 33e and formed the female screw inside like a 5th embodiment were formed in the bottom 45c by the side of the face sheet 33e of the beam 45, and using this penetration hole 43, the apparatus 44, such as a basket console panel only for a wheelchair, was constituted so that attachment to the basket interior of a room was possible.

[0053]Thus, while the rigidity of side-board 33 broad longwise the very thing is further strengthened by beam 45 fixation at the side-board 33 rear face also by a 6th embodiment in addition to comfortable ventilation of the basket interior of a room, attachment of the apparatus 44 using the beam 45 can be made certain and firm.

[0054]Also in this embodiment, the nut corresponding to the penetration hole 43 can be added to the penetration hole 43 of the beam 45 for the apparatus 44 attachment to the basket interior of a room by welding etc., and attachment of the apparatus 44 can be made into a easier and positive thing.

[0055]In this embodiment shown in drawing 6, although the beam 45 of the hollow shape [sectional shape] indicates that an inside is a tube-like object of a cavity, the rubber-rod object which formed the air hole 42 may be sufficient as it so that it may stand in a row in the up-and-down opening 33i, and it can use the penetration hole 43 as a mere female-screw hole in that case.

[0056]Although explained as what was applied to the side board 33 in a 3rd embodiment, since the air hole 42 which stands in a row up and down on the beam 45 was formed, this 6th embodiment is employable again also like the side board 33 of a 1st embodiment shown in drawing 1.

[0057]In each above-mentioned embodiment, although the case where the distribution channel of air for ventilation was formed in each of the longitudinal-direction both sides of a honeycomb material and sliding direction both sides was explained, even if it forms only in the longitudinal-direction both sides

of a honeycomb material, sufficient ventilation can be performed.

[0058]

[Effect of the Invention]As explained to details above, while being able to attain the weight saving of the basket room 3, and high rigidity-ization by using a honeycomb material as a reinforcing member of a side board according to the invention according to claim 1, Since the side board has dual structure, an effect of intercepting noise increases, noise, such as a whizzing sound in the hoistway of an elevator, becomes difficult to go into a basket indoor part, and also since ventilation of the basket interior of a room is performed good through the exhaust passage formed in the inside of a side board, the amenity can be raised extremely.

[0059]According to the invention according to claim 2, while the exhaust passage of the air for ventilation taken in from the outside to the basket interior of a room is secured, strengthening of a basket room and high rigidity-ization can be attained, an effect of intercepting noise can also be gone up, and the amenity of a basket room can be improved.

[0060]While being able to attain the weight saving of a basket room, and high rigidity-ization according to the invention according to claim 3, Since the side board has dual structure, while an effect of intercepting noise increases and noise, such as a whizzing sound in the hoistway of an elevator, becomes difficult to go into a basket indoor part, since ventilation of the basket interior of a room is performed good through the exhaust passage formed in the inside of a side board, the amenity can be raised extremely. Since a vertical reinforcing member becomes unnecessary, the cost cut by reduction of part mark and reduction of the number of assemblers can also be aimed at.

[0061]According to the invention according to claim 4, according to the effect of intercepting noise by the backlining of a side board, noise, such as a whizzing sound in a hoistway, makes it hard to go into a basket indoor part, and since an exhaust passage is established in the inside of a side board, ventilation in a riding basket can be performed comfortably.

[0062]Since the exhaust passage inside a side board, i.e., the course of the opening from the lower end of a side board to an exhaust port, becomes short according to the invention according to claim 5, the pressure loss from the lower end of a side board to an exhaust port decreases, and efficient basket indoor ventilation can be performed.

[0063]Since the rigidity of a side board is strengthened further in addition to good ventilation being performed again since the beam was provided in the back side of the face sheet according to the invention of Claim 6 and Claim 7, the basket console panel only for a wheelchair, etc. can be attached to

the side-board side by the side of the basket interior of a room easily and certainly using the beam.

[Brief Description of the Drawings]

[Drawing 1]It is a lineblock diagram of a 1st embodiment of a side board shown in order to explain the riding basket of the elevator concerning this invention.

[Drawing 2]It is a lineblock diagram showing a 2nd embodiment of a side board.

[Drawing 3]It is a lineblock diagram showing a 3rd embodiment of a side board.

[Drawing 4]It is a lineblock diagram showing a 4th embodiment of a side board.

[Drawing 5]It is a lineblock diagram showing a 5th embodiment of a side board.

[Drawing 6]It is a lineblock diagram showing a 6th embodiment of a side board.

[Drawing 7]It is drawing of longitudinal section shown in order to explain the structure of the riding basket of a general rope type elevator.

[Drawing 8]It is the lineblock diagram shown in order to explain the side board of the riding basket of the conventional elevator.

[Drawing 9]It is a lineblock diagram showing other conventional side boards.

[Drawing 10]It is a lineblock diagram showing the conventional side board of further others.

[Explanations of letters or numerals]33 Side-board 33a [Exhaust ports 41 and 45 / Beam 42 / Air hole 43 / Penetration hole 44 / Apparatus] Upper reinforcing member 33b lower reinforcing member 33c and 33d length reinforcing member 33e face sheet 33f backlining 33h honeycomb material 33i Openings 37, 39, and 40 Slit 38